

A Vision for Integrated, Accessible Public Health Data in Maine

Paul Kuehnert, MS, RN

Director, Division of Disease Control
Bureau of Health
Department of Human Services

Presentation



- Current status of public health data
- Maine Integrated Public Health Information System(IPHIS) Vision
- Summary of IPHIS to date
- Discussion

Data Resources Maine Bureau of Health

- Vital Records
- Behavioral Risk Factor Surveillance System
- Infectious Disease Reports
- Maine Cancer Registry
- Pregnancy Risk Assessment Monitoring System
- Maine Adult Tobacco Survey
- Maine Youth Tobacco Survey
- Health & Environmental Testing Laboratory
- Children and Adult Blood Lead Surveillance

Data Resources MBOH and Others

- Maine Youth Drug Alcohol Use Survey
- Youth Risk Behavior Survey

Current Picture: IT & Data Maine Bureau of Health

- 30-plus discrete data systems
- No Bureau-wide standards
- Most not “latest & greatest” technology
- Responsibility: program or Division level
- Minimal coordination

Current Picture: IT & Data Maine Bureau of Health (cont'd)

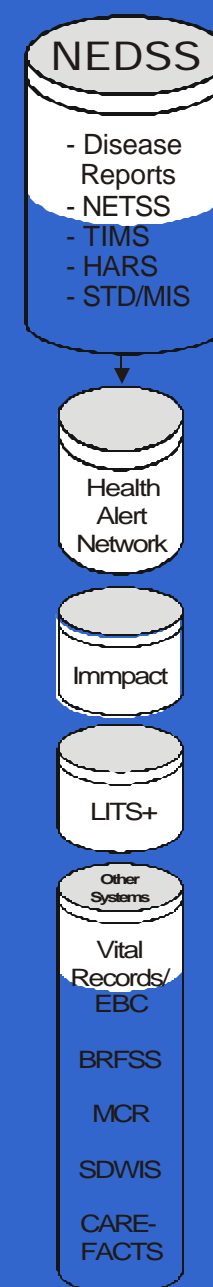
Summary:

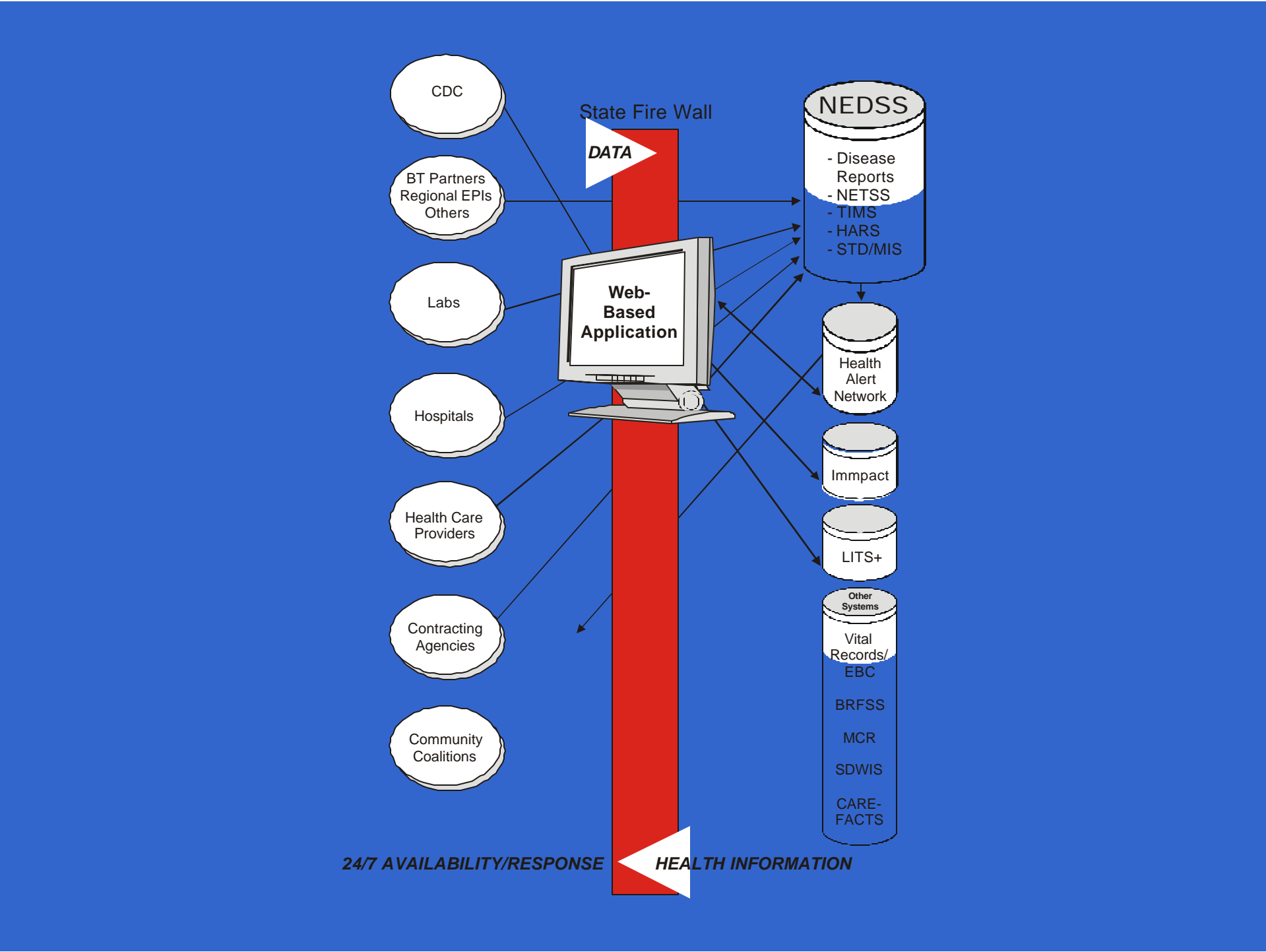
- Costly
- Ineffective from a business standpoint
- High risk
- Difficult to link databases

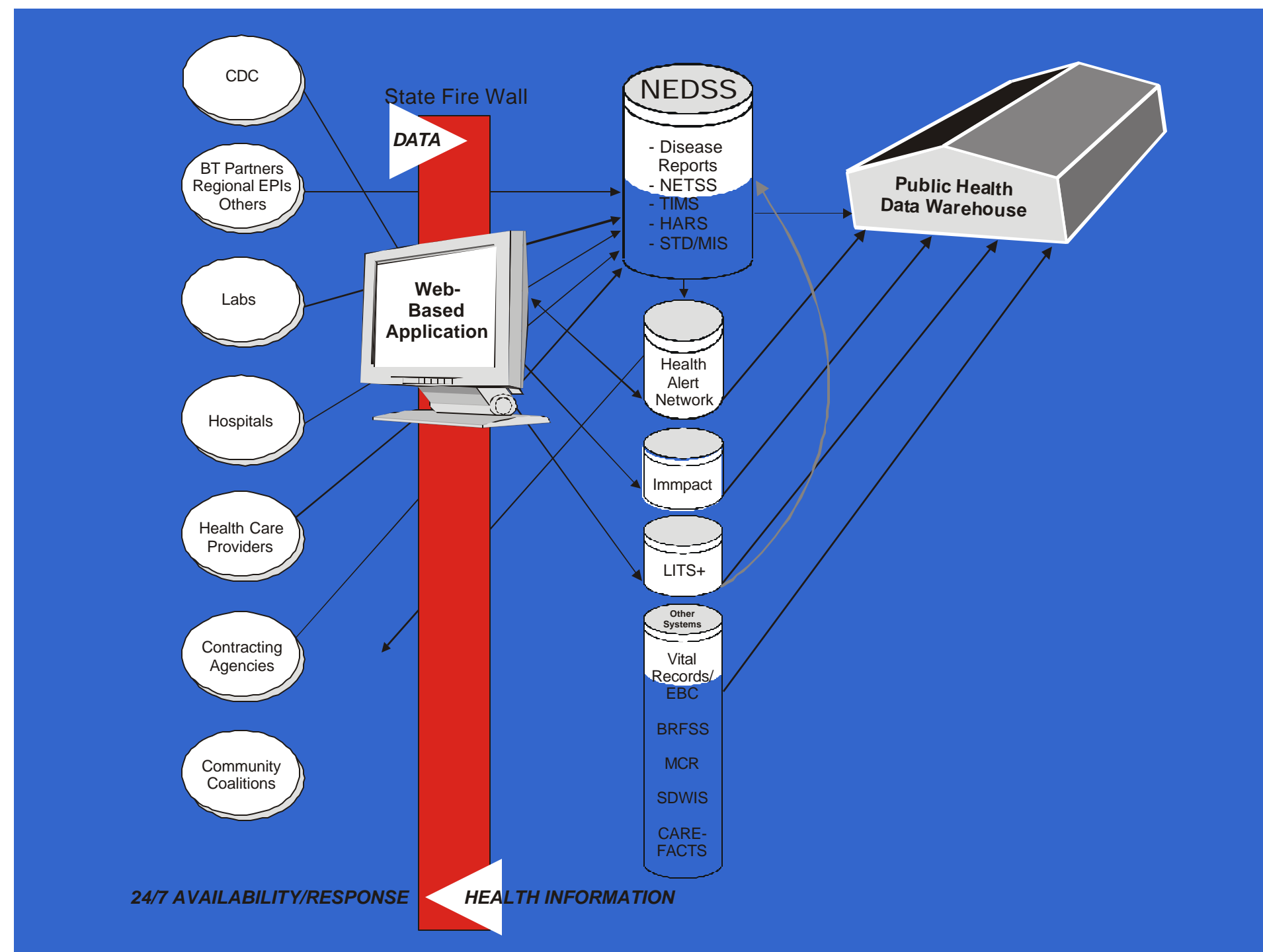
Vision for a

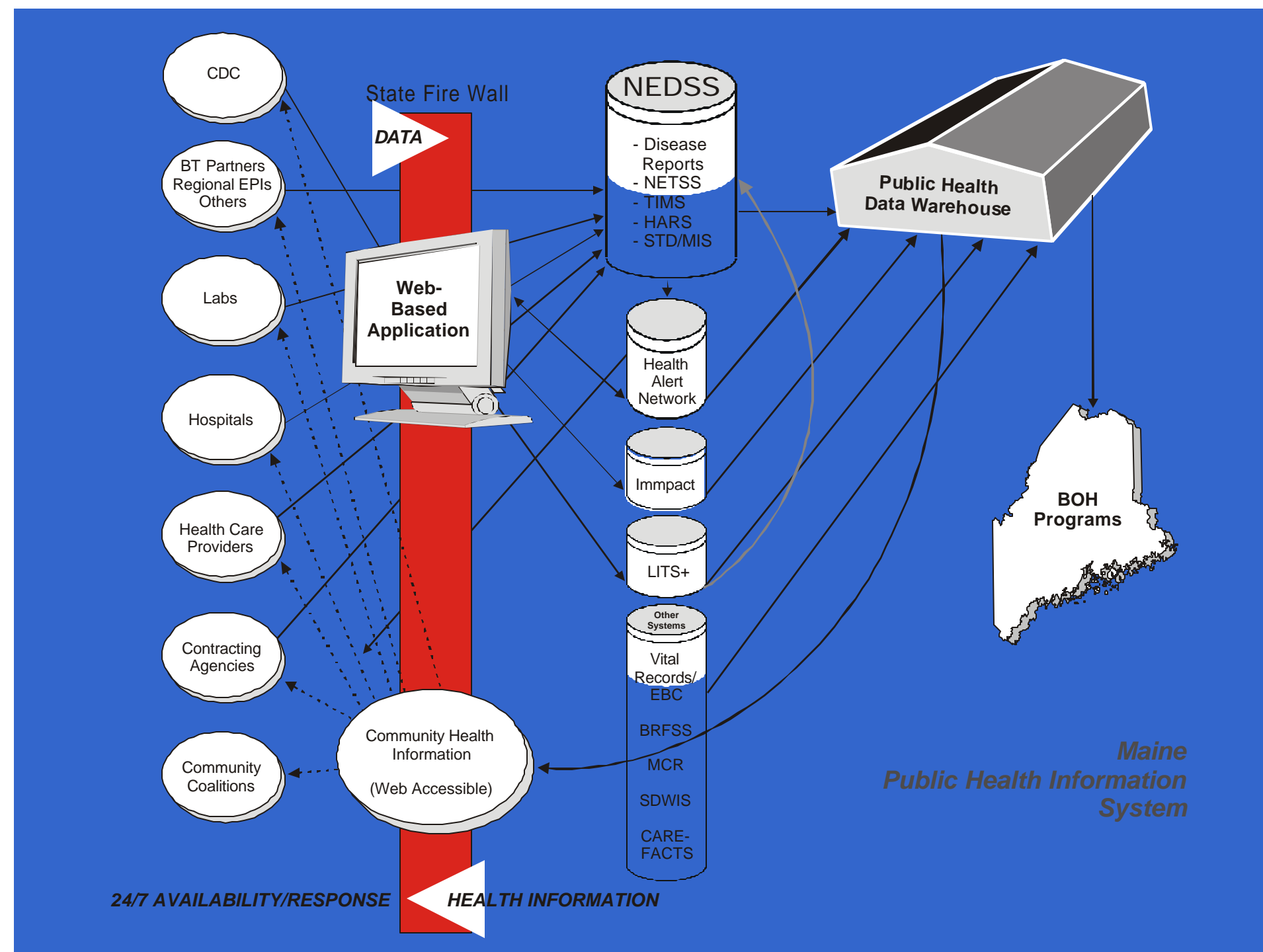
Maine Integrated Public Health Information System (IPHIS)

- Emerging from internal and external BOH IT and data needs assessments (2000)
- NEDSS formal assessment (2001)
- Community Health Information System (Maine Center for Public Health and the Bingham Program, 2001)









Maine Integrated Public Health Information System (IPHIS)

- **Umbrella for Bureau IT systems**
- **Common Web Front End**
- **Public Health Data Model**
- **NEDSS Standard Messaging**
- **Common Patient and Organization Data**
- **Support for Common Processes**
 - HL7 messaging, including encryption
 - Deduplication of Patients and transactions
 - Data Quality Edits and Verification
 - Security and authentication Standard Hardware and Software
- **Centralized user support**

Maine Integrated Public Health Information System (IPHIS)

Accomplishments to date:

- Leadership commitment
 - Department and Bureau
 - Formation of oversight and planning committees
 - Staffing
- Public Health Stakeholders
- Business Case Analysis Completed (RWJ *Connections* funding)
- 3 Phase Plan developed, 24-36 months

IPHIS 3-Phase Project Plan

Phase 1: System design and Implementation
of Integrated of Infectious Disease
Detection & Communications Systems

- JAD/RAD Sessions for overall design
- Priority: HAN and NEDSS Implementation
- NEDSS, HAN, IMMPACT, LITS+
- Others (environmental health??)
- Timeline – 12-18 months

IPHIS 3-Phase Project Plan

Phase 2: Integration/Coordination of BOH Systems

- Planning and Design continues from Phase 1
- Internal application of data standards, processes
- Integration vs. coordination decisions and implementation
- Projected Timeline 12-18 months

IPHIS 3-Phase Project Plan

Phase 3: Community Health Information Systems

- Planning and Design continues from Phase 1
- Implementation of web-based, rules-based, interactive health information site
- Projected Timeline 12-18 months

Current Status of Phase I:

- Proposals for IPHIS Contract Monitor being reviewed
 - Provides independent project management and quality assurance
 - Adds Layer of Accountability
- RFP for HAN System Imminent
 - Currently finishing State Review Process
 - COTS system with Adaptation
- Staffing Plan
 - Director of Special Projects for BOH IT Systems
 - 2 Project Positions in pipeline
 - Intern for RFP Process
 - Potentially another position from EPHT Initiative

Current Status of Phase I:

- Phase 1 System Design and Implementation RFP in Process
 - NEDSS Base System, ImmPact2, HAN integration, LITS+
 - Foundational Architecture
 - Electronic Data Exchange
 - JAD/RAD

Conclusion

- Maine Bureau of Health and the Department of Human Services are committed to an integrated public health information system
- Early in implementation
- Multiple opportunities for stakeholder involvement and input
- Exciting opportunities!